

### AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A flowmeter for replacing a differential flowmeter in a fluid flow system, comprising:
- a primary flow sensor;
  - sensor electronics connected to said primary flow sensor for providing a measurement signal;
  - a signal processing unit connected to said sensor electronics for determining the flow, said signal processing unit being set to produce a signal proportional to ~~the flowrate~~ or the square of the flowrate; and
  - an output signal generator for generating an output signal proportional to the signal of said signal processing unit.

Claims 2 - 5 (Cancelled).

6. (Currently Amended) An ultrasonic flowmeter for measuring fluid flow and for replacing a differential flowmeter in a fluid flow system, comprising:
- a primary flow sensor including a pair of ultrasonic transducers which are spaced apart in the direction of the fluid flow, each ultrasonic transducer emitting an ultrasonic beam into the fluid flow which is received by the other ultrasonic transducer;
  - sensor electronics connected to and receiving the signals generated by said ultrasonic transducers, and generating therefrom a measurement signal; and
  - a signal processing unit for receiving said measurement signal and determining the flow of the fluid by producing a signal proportional to ~~the flowrate~~ or the square of the flowrate of the fluid.

Claims 7 and 8 (Cancelled)